

L 25693-66

ACC NR: AF600278

agreement with the model of A. Granato and K. Lucke (J. App. Phys. v. 27, 583, 1956) for the amplitude-dependent absorption of ultrasound by dislocations. Most dislocations were found to be growth dislocations. Research is planned on the possibility of separating the electronic part of the absorption in its pure form and determination of the anisotropy of the energy gap, which preliminary estimates show to be lower than obtained from the present data. Orig. art. has: 2 figures.

SUB CODE: 20/ SUBM DATE: 28Jun65/ ORIG REF: 001/ OTH REF: 004

Ctd 2/2

BRANDT, I.M.; FIL', V.M.; SHEVCHENKO, O.A.

Nonlinear effects in ultrasound absorption in superconducting  
indium. Zhur.eksp. i teor.fiz. 49 no.6:1715-1717 B '65.

(MIRA 1961)

1. Fiziko-tekhnicheskii institut niskikh temperatur AN UkrSSR.  
Submitted June 23, 1965.

GUSEV, V. V.; SHEVCHENKO, O. F.

Possibility of the separate determination of trivalent and pentavalent arsenic in the presence of ions of ferric and ferrous oxides. Ukr. khim. zhur. 28 no.3:377-382 '62.  
(MIRA 15:10)

1. Institut mineral'nykh resursov AN UkrSSR.

(Arsenic compounds) (Iron oxides)

GUSEV, V.V.; Primala uchastiye; SHEVCHENKO, O.F.

Composition of arsenic compounds in Kerch ores. Dokl. AN SSSR  
152 no.2:426-429 S '63. (MIRA 16:11)

1. Institut mineral'nykh resursov AN UkrSSR. Predstavleno  
akademikom N.M. Strakhovym.

Shevchenko, O. I.

POCHINOV, V.Ya.; SHEVCHENKO, O.I.

Alkylation of carboxylic acids and phenol with alkylphenyltriazene-  
nes. Ukr.khim.zhur. 20 no.3:289-292 '54. (MIRA 7:8)

1. Kiyevskiy gosudarstvennyy universitet, kafedra organicheskoy  
khimii.

(Alkylation) (Acids, Fatty) (Phenol) (Triazene)

*SHEVCHENKO, O.I.*  
USSR / Microbiology. General Microbiology

F-1

Abs Jour : Ref Zhur - Biol., No 2, 1958, No 5063

Author : Shevchenko, O.I., Ishchenko, G.N.

Inst : Not given

Title : Biological Interrelationship Between an Original Strain of Intestinal Bacillus and Its Sucrose Decomposing Sucrose Variant. (Second Communication)

Orig Pub : Za sots. zdravookhr. Uzbekistana, 1956, No 5, 67-70

Abstract : Isolated colonies of the original strain, obtained by inoculation on a solid medium with sucrose, decomposed sucrose. In inoculation of this strain on a liquid medium with sucrose, no decomposition of the latter was observed. It was assumed that there are present antagonistic relationships between the original culture and its variant which fer-

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79-2-11/58

Effect of Intermolecular Reaction on the Bromination Reaction in a  
Binary Benzene - Nitrobenzene System

is accompanied by irreversible sulfonation. The solvating nitrobenzene medium which decreases the activation energy was considered to be the most favorable for benzene bromination reactions.

In the absence of a solvent the bromination reaction is maintained by thermal excitation. The initiating effect of bromobenzene as a polar solvent was demonstrated during the bromination of benzene and the kinetic curve of bromine reaction in the bromobenzene solution was perfectly similar to the curve of the nitrobenzene solution.

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2 graphs. There are 10 references, of which 6 are Slavic

79-2-11/58

Effect of Intermolecular Reaction on the Bromination Reaction in  
a Binary Benzene - Nitrobenzene System

ASSOCIATION: The Kharkov Polytechnicum

PRESENTED BY:

SUBMITTED: February 4, 1956

AVAILABLE: Library of Congress

Card 3/3



POCHINOK, V.Ya.; BELINSKAYA, R.V.; SHEVCHENKO, O.I.; MIKHAYLICHENKO, N.K.

Thermal decomposition of fatty aromatic triazenes. Ukr. khim.  
zhur. 24 no. 2:228-231 '58. (MIRA 11:6)

1. Kiyevskiy gosudarstvennyy universitet im. T.G. Shevchenko,  
Kafedra organicheskoy khimii.  
(Triazene)

S/076/60/034/010/005/022  
B015/B064

AUTHORS: Cheshko, F. F., Bocharova, V. V., Budylo, L. K.,  
Shevchenko, O. I., and Naumenko, V. P.

TITLE: Physico-chemical Investigations of the Sensitivity of the Benzene Cycle to Polarizing Actions of the Solvent and the Field of Force. I. Magneto-optical Examination of the Intermolecular Interactions in Binary Nitrobenzene Systems of the Alkyl-substituted Benzene Derivatives

PERIODICAL: Zhurnal fizicheskoy khimii. 1960, Vol. 34, No. 10, pp. 2190-2198

TEXT: Alkyl derivatives of benzene, polyphenyl hydrocarbons and acene hydrocarbons were investigated in binary systems with nitrobenzene to determine the influence of functional groups upon the polarizability of the benzene cycle. The composition of the molecular compounds thus formed was determined since from the difference in the composition of these compounds it is possible to determine the varying intermolecular interaction.

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Physico-chemical Investigations of the Sensitivity of the Benzene Cycle to Polarizing Actions of the Solvent and the Field of Force. I. Magneto-optical Examination of the Intermolecular Interactions in Binary Nitrobenzene Systems of the Alkyl-substituted Benzene Derivatives

S/076/60/034/010/005/022  
B015/B064

Various physico-chemical methods of analysis are applied to determine the composition of the molecular compounds. The authors are the first to publish experimental data of the magneto-optical examinations of the binary nitrobenzene systems with alkyl derivatives in benzene. By means of an electric apparatus containing a precision polarimeter as well as a M-19 (M-19) fluxmeter to measure the magnetic field, the diagrams of the dependence of the angle of rotation  $\alpha_H^0$  of the polarization plane in the magnetic field on the composition of the binary system were plotted (Figs. 2-4), and the composition of the molecular compounds thus formed determined. The total picture of the curve "composition -  $\alpha_H^0$ " shows that the components have no additive properties. The following rules were established: a prolongation of the n-alkyl chain is accompanied by an

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Physico-chemical Investigations of the  
Sensitivity of the Benzene Cycle to  
Polarizing Actions of the Solvent and the  
Field of Force. I. Magneto-optical Examina-  
tion of the Intermolecular Interactions in  
Binary Nitrobenzene Systems of the Alkyl-  
substituted Benzene Derivatives

S/076/60/034/010/005/022  
B015/B064

increase of the dipole moment and the polarizability, and weakens the  
magneto-optical activity (Fig. 2, Curves 1-4). The cyclization of an  
n-butyl chain on the benzene cycle increases the magneto-optical activity  
(Fig. 3, Curves 1,2). A prolongation and cyclization of the alkyl groups  
in o-position changes the dipole moment and the magneto-optical activity  
(Fig. 3, Curves 2,3) only inconsiderably. A symmetrization of the methyl  
groups arranged around the benzene cycle eliminates polarization and  
weakens the magneto-optical activity (Fig. 3, Curves 4,5). A tertiary  
carbon atom increases the dipole moment and weakens the magneto-optical  
activity (Fig. 4, Curves 1,2). An isomerization of the butyl group weakens  
the magneto-optical activity (Fig. 2, Curve 4, Fig. 4, Curve 2). As a  
functional component of  $\alpha$ -methyl naphthalene a diene system polarized by  
a methyl group increases the magneto-optical activity (Fig. 4, Curves 3,4)

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Physico-chemical Investigations of the Sensitivity of the Benzene Cycle to Polarizing Actions of the Solvent and the Field of Force.  
I. Magneto-optical Examination of the Inter-molecular Interactions in Binary Nitrobenzene Systems of the Alkyl-substituted Benzene Derivatives

S/076/60/034/010/005/022  
B015/B064

considerably. From the diagrams (Figs. 2-4) it is possible to determine the formation of the following molecular compounds:

2C<sub>6</sub>H<sub>5</sub>·5C<sub>6</sub>H<sub>5</sub>NO<sub>2</sub>, 4CH<sub>3</sub>C<sub>6</sub>H<sub>4</sub>·C<sub>6</sub>H<sub>5</sub>NO<sub>2</sub>, 2C<sub>2</sub>H<sub>5</sub>C<sub>6</sub>H<sub>4</sub>·5C<sub>6</sub>H<sub>5</sub>NO<sub>2</sub>,  
5C<sub>2</sub>H<sub>5</sub>C<sub>6</sub>H<sub>4</sub>·2C<sub>6</sub>H<sub>5</sub>NO<sub>2</sub>, 2*n*-C<sub>7</sub>H<sub>7</sub>C<sub>6</sub>H<sub>4</sub>·3C<sub>6</sub>H<sub>5</sub>NO<sub>2</sub>,  
3*n*-C<sub>7</sub>H<sub>7</sub>C<sub>6</sub>H<sub>4</sub>·2C<sub>6</sub>H<sub>5</sub>NO<sub>2</sub>, 2*o*-(CH<sub>3</sub>)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>·5C<sub>6</sub>H<sub>5</sub>NO<sub>2</sub>,  
4*o*-(CH<sub>3</sub>)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>·C<sub>6</sub>H<sub>5</sub>NO<sub>2</sub>, 2*m*-(CH<sub>3</sub>)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>·5C<sub>6</sub>H<sub>5</sub>NO<sub>2</sub>,  
3*m*-(CH<sub>3</sub>)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>·2C<sub>6</sub>H<sub>5</sub>NO<sub>2</sub>, 2*p*-(CH<sub>3</sub>)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>·5C<sub>6</sub>H<sub>5</sub>NO<sub>2</sub>,  
3*p*-(CH<sub>3</sub>)<sub>2</sub>C<sub>6</sub>H<sub>4</sub>·2C<sub>6</sub>H<sub>5</sub>NO<sub>2</sub>, 2C<sub>10</sub>H<sub>11</sub>·5C<sub>6</sub>H<sub>5</sub>NO<sub>2</sub>, 4C<sub>10</sub>H<sub>11</sub>·C<sub>6</sub>H<sub>5</sub>NO<sub>2</sub>,  
2(CH<sub>3</sub>)<sub>3</sub>C<sub>6</sub>H<sub>4</sub>·5C<sub>6</sub>H<sub>5</sub>NO<sub>2</sub>, 5(CH<sub>3</sub>)<sub>3</sub>C<sub>6</sub>H<sub>4</sub>·2C<sub>6</sub>H<sub>5</sub>NO<sub>2</sub>,  
2*tert*·-C<sub>6</sub>H<sub>5</sub>C<sub>6</sub>H<sub>4</sub>·5C<sub>6</sub>H<sub>5</sub>NO<sub>2</sub>, 5*tert*·-C<sub>6</sub>H<sub>5</sub>C<sub>6</sub>H<sub>4</sub>·2C<sub>6</sub>H<sub>5</sub>NO<sub>2</sub>,  
2α·CH<sub>3</sub>C<sub>10</sub>H<sub>7</sub>·5C<sub>6</sub>H<sub>5</sub>NO<sub>2</sub>, 5α·CH<sub>3</sub>C<sub>10</sub>H<sub>7</sub>·2C<sub>6</sub>H<sub>5</sub>NO<sub>2</sub>

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Physico-chemical Investigations of the  
Sensitivity of the Benzene Cycle to  
Polarizing Actions of the Solvent and the  
Field of Force. I. Magneto-optical Examina-  
tion of the Intermolecular Interactions in  
Binary Nitrobenzene Systems of the Alkyl-  
substituted Benzene Derivatives

S/076/60/034/010/005/022  
B015/B064

The reaction mechanism of such compounds can be represented as polarization and orientation of the molecules of alkyl derivatives of benzene in the field of forces of the dipole molecules of nitrobenzene with a complete or partial compensation of the dipole moment. N. Tavadze and M. Vol'kenshteyn are mentioned in the text. There are 4 figures and 8 references: 5 Soviet, 1 British, 1 German, and 1 US.

ASSOCIATION: Khar'kovskiy polytekhnicheskii institut  
(Khar'kov Polytechnic Institute)

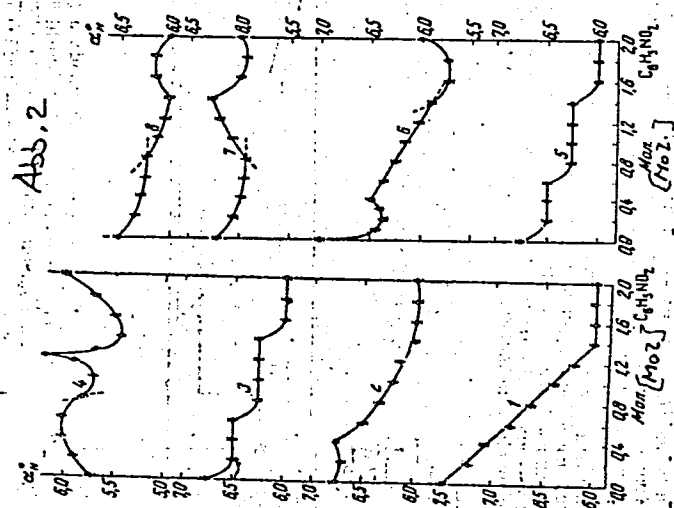
SUBMITTED: December 10, 1959

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S/076/60/034/010/005/022  
B015/B064

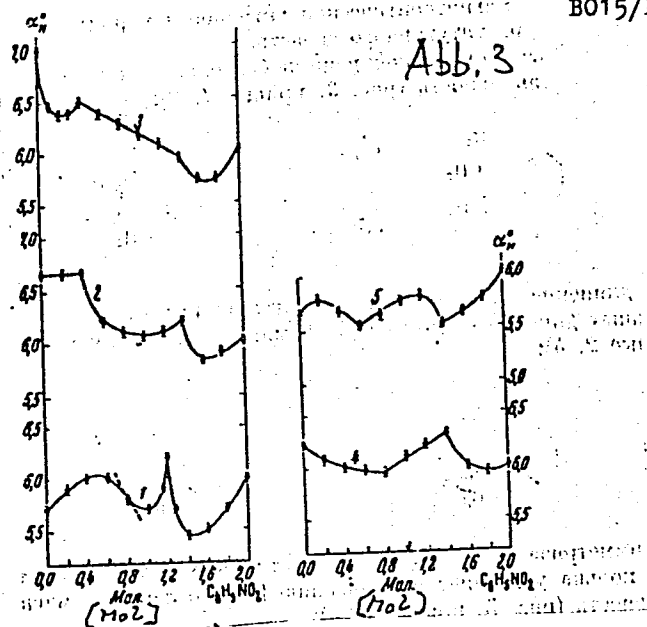
Abb. 2



Card 6/9

S/076/60/034/010/005/022  
B015/B064

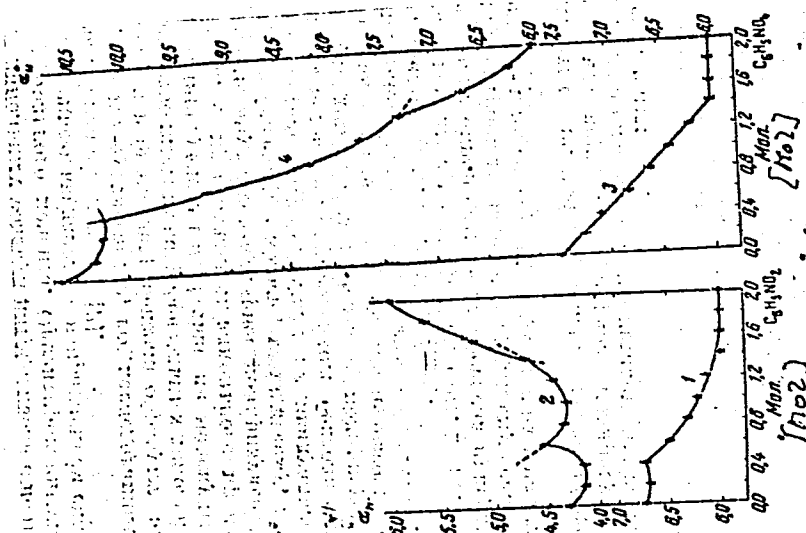
Abb. 3



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
S/076/60/034/010/005/022  
B015/B064



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Physico-chemical Investigations of the  
Sensitivity of the Benzene Cycle to  
Polarizing Actions of the Solvent and the  
Field of Force. I. Magneto-optical  
Examination of the Intermolecular Inter-  
actions in Binary Nitrobenzene Systems of  
the Alkyl-substituted Benzene Derivatives

S/076/60/034/010/005/022  
B015/B064

Legend to Fig. 2, curve composition -  $\alpha_H^O$  of the binary systems:   
1 - benzene - nitrobenzene, 2 - toluene - nitrobenzene, 3, 5 - ethyl  
benzene - nitrobenzene, 4 - n-butyl benzene - nitrobenzene, 6 - o-xylene-  
nitrobenzene, 7 - m-xylene - nitrobenzene, 8 - p-xylene - nitrobenzene.  
Fig. 3, curve composition -  $\alpha_H^O$  of the binary systems: 1 - n-butyl benzene -  
nitrobenzene, 2 - tetraline - nitrobenzene, 3 - o-xylene - nitrobenzene,  
4 - m-xylene - nitrobenzene, 5 - mesitylene - nitrobenzene; Fig. 4, curve  
composition -  $\alpha_H^O$  of the binary systems: 1 - toluene - nitrobenzene, 2 -  
tert-isobutyl benzene - nitrobenzene, 3 - benzene - nitrobenzene,  
4 -  $\alpha$ -methyl naphthalene - nitrobenzene.

Card 9/9

VISHNEVSKAYA, G.O.; GORBUNOVA, A.S.; ZHELOBENKO, V.A.; FIALKOV, Yu.A.;  
SHEVCHENKO, O.I.; YAGUPOL'SKIY, L.M.

Synthesis of the preparation bilignost. Med. prom. 14, no.9:25-30  
S '60. (MIRA 13:9)

1. Kiyevskiy khimiko-farmatsevticheskiy zavod im. M.V. Lomonosova.  
(ADIPIC ACID)

CHESHKO, F.F.; SHEVCHENKO, O.I.; BOCHAROVA, V.V.; LAVYGIN, I.A.

Physicochemical studies of the sensitivity of the benzene ring to the polarizing effect of the solvent and of the force field. Part 2: Spectrographic and refractometric study of intermolecular reactions in nitrobenzene binary systems of n-butylbenzene and tetralin, toluene, and  $\alpha$ -methylnaphthalene. Zhur.fiz.khim. 37 no.10:2190-2202 0 '63.

(MIRA 17:2)

1. Khar'kovskiy politekhnicheskij institut.

AMBARTSUMYAN, M.S., vrach; SHEVCHENKO, O.L., vrach

Prevention of brucellosis in a meat packing plant. Gig. i san.  
26 F '61. (MIRA 14:10)

1. Iz 1-go bol'nichno-poliklinicheskogo meditsinskogo ob"yedineniya  
Leninakana, Armyanskaya SSR.  
(LENINAKAN--MEAT INDUSTRY--HYGIENIC ASPECTS)  
(BRUCELLOSIS)

SHEVCHENKO, O.M.

Device for the exchange of valve seats. Leh.prom. no. 4:81  
O-D '63. (MIRA 17:5)

SHEVCHENKO, O. P.

21(7)  
AUTHORSSudachin, V. G., Toplov, I. B.,  
Shevchenko, O. P.

SVT/56-16-3-30/71

TITLES

On the Part Played by the Exchange Effects in Stripping  
Reactions (O roli obmenykh effektiv v raznykh reakciyakh)

PERIODICALS

Zhurnal eksperimental'noy i teoreticheskoy fiziki,  
1969, Vol. 36, No. 3, pp. 630-635 (USSR)

ABSTRACTS

Consideration of exchange effects in stripping reactions (Ref. 1-3) shows that besides the "common" stripping, two further processes must be dealt with: a) the "knock out" effect, and b) "heavy particle stripping" (Ref. 2-4). In reference 5 the problem concerning the determination of the stripping cross section was investigated by means of an asymptotic wave function. In the present paper the authors investigate b) for several simple cases. For the amplitudes of the processes it holds that

$$I_1 = I_1', \quad I_2 = (n-1)I_2', \quad I_3 = (n-1)I_3'$$

$I_1 \rightarrow$  "common" stripping  $n$  - number of nucleons outside  
 $I_2 \rightarrow$  case a)  $I_2'$  - the closed shell in the  
 $I_3 \rightarrow$  case b)  $I_3'$  - primary nucleus

Card 1/3

On the Part Played by the

Exchange Effects in Stripping Reactions

SVT/56-16-3-30/71

In the following, a very complicated explicit equation is  
given for the amplitude square of process b),  $I_3^2$ .

For the cases a)  $l = 1, j = 1/2, j_1 = 1, \tau_1 = 0$  (JJ-coupling)

b)  $l = 1, l_1 = 0, s_1 = 1, \tau_1 = 0$  (LS-coupling)

$$c) l = 0, j_1 = 1, \tau_1 = 0$$

and some special reactions the reaction parameters are then  
calculated, two diagrams very clearly show the calculated  
curves; figure 1 shows the differential cross section of the  
reaction  $^{21}\text{Ne}(d,p)^{22}\text{Ne}$  in the angular range of from 0 to 90°.  
Both for common stripping and for the knock out effect,  
Figure 2 shows the angular dependence of the differential  
cross section of the reaction

$$^{21}\text{Ne}(d,p)^{22}\text{Ne}$$

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Exchange Effects in Stripping Reactions

vis. the curves for common stripping, knock out (JJ-coupling),  
knock out (LS-coupling), and the stripping of heavy particles,  
in all cases in the range  $0 \leq \theta \leq 100^\circ$ . There are 2 figures  
and 10 references, 2 of which are Soviet.

ASSOCIATION: Institut yadernoy fiziki Moskovskogo gosudarstvennogo  
universiteta (Institute for Nuclear Physics of Moscow  
State University)

SUBMITTED: September 10, 1969

Card 3/3

84386

S/056/60/039/004/004/048  
B004/B070

24.6600

AUTHORS: Teplov, I. B., Shevchenko, O. P., Ruuge, E. K.

TITLE: Angular Distribution of  $\alpha$ -Particles<sup>19</sup> in  $F^{19}(p,\alpha)O^{16}$  Reaction /9

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,  
Vol. 39, No. 4(10), pp. 923-928

TEXT: The purpose of the present work was to study the angular distribution of alpha particles produced by 5.1 - 6.5 Mev protons in the reaction  $F^{19}(p,\alpha)O^{16}$ . The protons were obtained by accelerating molecular hydrogen in the 120-cm cyclotron at the authors' institute. The experimental arrangement is shown in Fig. 1. The proton energy was measured by slowing them in an aluminum foil (10.5 $\mu$ ). The particles produced in the reaction were recorded by a telescope consisting of three proportional counters. The counters were arranged in a chamber which could be rotated round the target from 0 to 160°. A pulse height analyzer (Fig. 2) was used to separate the alpha particles from the protons. Fig. 3 shows the energy spectrum of alpha particles emitted at 30° when a

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Angular Distribution of  $\alpha$ -Particles in  
 $F^{19}(p,\alpha)O^{16}$  Reaction

S/056/60/039/004/004/048  
B004/B070

fluoroplastic target is bombarded with 6.6-Mev protons. The angular distribution of long range particles produced in the reaction  $F^{19}(p,\alpha)O^{16}$  and corresponding to the formation of  $O^{16}$  nucleus in the ground state ( $Q_0 = 8.12$  Mev) was measured for eleven proton energies between 5.15 and 6.68 Mev. The results in the center of mass system are represented in Fig. 4. All the observed angular distributions were strongly anisotropic. The angular distributions obtained experimentally are compared with those calculated on the assumption of direct processes in Fig. 5. The strong dependence of the angular distribution on the proton energy indicates that the mechanism of reaction plays a decisive role. From the study of cross sections and differential cross sections for 30, 90, and 150° (Fig. 6), the authors conclude that when the proton energies lie between 5.1 and 6.5 Mev no particular mechanism of reaction is predominant; direct processes as well as the formation of compound nuclei takes place in this range. The authors thank B. V. Devichev for help in the work. There are 6 figures and 10 non-Soviet references.

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84386

Angular Distribution of  $\alpha$ -Particles in  
 $F^{19}(p,\alpha)O^{16}$  Reaction

S/056/60/032/004/004/048  
B004/B070

ASSOCIATION: Institut yadernoy fiziki Moskovskogo gosudarstvennogo  
universiteta (Institute of Nuclear Physics of the Moscow  
State University)

SUBMITTED: May 6, 1960

Card 3/3

TEPLOV, I.B.; DMITRIYEV, I.S.; TEPLOVA, Ya.A.; SHEVCHENKO, O.P.

Study of excited states of  $\text{Be}^8$  with the aid of the reaction  
 $\text{Li}^7(p, \alpha)\text{He}^4$ . Izv. AN SSSR. Ser. fiz. 26 no.9:1150-1153 S  
'62. (MIRA 15:9)  
(Nuclear reactions) (Beryllium—Isotopes)

34634  
S/056/62/042/002/007/050  
B102/B138

24.6600  
AUTHORS:

Teplov, I. B., Dmitriyev, I. S., Teplova, Ya. A., Shevchenko,  
O. P.

TITLE

Investigation of  $\alpha$ -particle angular distribution in  $\text{Li}^7(p, \alpha)\text{He}^4$   
reactions

PERIODICAL

Zhurnal eksperimental'noy i teoreticheskoy fiziki, --. 42, no. 2  
1962, 353 - 357

TEXT. The angular distributions of the  $\alpha$ -particles from  $\text{Li}^7(p, \alpha)\text{He}^4$  reac-  
tions were measured in the range  $20 - 160^\circ$  for  $E_p = 5.78, 6.45$  and  $6.55$  Mev  
using a telescope arrangement of three proportional counters, and  $\text{Li}_2\text{CO}_3$   
targets  $0.16, 0.51$ , and  $0.92 \text{ mg/cm}^2$  thick corresponding to energy losses  
of 6-Mev protons of 13, 4, and 70 kev. The angular distributions were ob-  
tained as  $d\sigma/d\Omega = (6/4\pi) [1 + A_2 P_2(x) + A_4 P_4(x)]$  with

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S/056/62/042/002/007/055  
B102/B138

Investigation of  $\alpha$ -particle...

$E_p$ , Mev	$a_2$	$A_2$	$A_4$
6.55	-0.169	-0.167	-0.102
6.45	-0.357	-0.356	-0.010
6.38	-0.717	-0.693	+0.085

$\sigma$  is the total cross section. The experimental results are satisfactorily described, even by  $d\sigma/d\Omega = A_2 P_2(x)$ . The excitation curves were measured for  $5.45 \leq E_p \leq 6.55$  Mev (angle of  $\alpha$ -particle emission:  $30^\circ$  - or, in the c.m.s.  $60^\circ$ ) and for  $5.3 \leq E_p \leq 6.55$  Mev ( $80^\circ$  or  $90^\circ$  in c.m.s.). From the resonance structure of the excitation curve of the  $Li^7(p,\alpha)Be^8$  reactions, it was found that the reaction takes place mainly via formation of a  $Be^8$  compound nucleus. The excitation curve has two resonance peaks, at 5.0 and 5.6 Mev. The first can be explained if it is assumed that in the  $Be^8$  nucleus there is a  $2^+$  level with an excitation energy of 19.9 Mev and a  $0^+$  level above the resonance range. The second can be explained if the  $Be^8$  nucleus has a level with 22.3 Mev excitation energy of 1 Mev width, even spin and positive parity, most probably  $2^+$ . There are 4 figures and 9

Card 2/3

OS. SHERCHENKO, C. S.

Acceleration of the method of determining double bonds in synthetic resins by the use of a catalyst. T. N. Kasterina, E. B. Kozlovskaya, and O. S. Sherchenko. *Zavodskaya Lab.* 21, 403-10 (1955). — Pyridine sulfate bromide was used for detg. residual double bonds in resins prepd. from allyl esters. Agreement within 0.2-0.5 units was generally obtained with theory. The reagent can be used also for detn. of furyl alc. The reagent is prepd. from pyridine, AcOH, and Br<sub>2</sub> and is used in CCl<sub>4</sub> soln. of the sample with addn. of 2.5% Hg(OAc)<sub>2</sub> catalyst, followed by 15% KI soln. The iodine liberated after 1 min. is titrated with thiosulfate (cf. — Benham, *C.A.* 44, 8110c). G. M. Kosolapov

2 May

MS

SHEVCHENKO, O.V.

Data on changes in immunological indexes in experimental hypothy-  
reosis. Medych. zhur. 23 no.4:17-19 '53. (MLRA 8:2)

1. Kiivs'kiy medichniy institut, kafedra patologichnof fiziologii.  
(THYROID GLAND--DISEASES) (BLOOD--EXAMINATION)

SHEVCHENKO, P.

Introducing business accounting into motor pools of the Voroshi-  
lovgrad Coal Combine. Avt.transp. 32 no.1:37 Ja '54. (MLRA 7:8)  
(Transportation, Automotive--Accounting)



SHEVCHENKO, P.

How we analyze collective farm annual reports. Fin.SSSR 16 no.9:61-  
65 S '55. (MLRA 8:12)  
(Collective farms--Finance) (Financial statements)

GUSEV, P., kandidat tekhnicheskikh nauk; SHEVCHENKO, P., inzhener.

Steam treatment of buckwheat. Muk.-elev.prom. 21 no.1:17-19 Ja '55.  
(MIRA 8:5)

1. Odesskiy tekhnologicheskii institut im. I.V.Stalina (for Gusev).
2. Glavnoye upravleniye mukomol'noy, krupyanoy i kombikormovoy promyshlennosti (for Shevchenko).  
(Buckwheat)

84-5-3/42

AUTHOR: Shevchenko, P.

TITLE: In Combat and at Work (V Coyu i v trude)

PERIODICAL: Grazhdanskaya Aviatsiya, 1957, Nr 5, pp. 3-4 (USSR)

ABSTRACT: The article relates some instances of the gallantry of the airman Pavel Leont'yevich Slastukhin during World War II. Slastukhin's present work as senior controller of the Stalingrad RDS is also described. The Stalingrad Air Traffic Control Center is described as equipped with radar to track and guide aircraft. The range of the installation appears to reach well into the domain of the neighboring (Rostov) RDS. Photo shows Slastukhin at work.

AVAILABLE: Library of Congress

Card: 1/1

GENDEL'MAN M. (TSelinograd); SPEKTOR, M. (TSelinograd); SHEVCHENKO, P.  
(TSelinograd)

Planning agricultural regions. Vop. ekon. no.9:127-133 S '62.  
(MIRA 15:9)

(Virgin Territory--Rural planning)

SHEVCHENKO, P.A., inzh.

Electric power savings amounting to 4 million kilowatt hours;  
experience of the Lvov Railroad in the operation of rectifier-  
inverter units. Elekt.i tepl. tiaga 5 no.10:17-18 0 '61.  
(MIRA 14:10)

1. 5-y uchastok energosnabzheniya L'vovskoy dorogi.  
(Electric railroads--Substations)  
(Mercury-arc rectifiers)

SHEVCHENKO, P.A., inzh.

Rectifier with a limited exciting current contributes to savings of kilowatt-hours. Elek.i tepl.tiaga 6 no.5:20-21 My '62. (MIRA 15:6)

1. Pyatyy uchastok energosnabzheniya L'vovskoy dorogi.  
(Electric current rectifiers)

SHEVCHENKO, Petr Davidovich; MAKRIKOVA, Aleksandra Nikiforovna; LYZHIN, K.,  
red.; GIL'DEBRANT, Ye., tekhn. red.

[Crop rotation system is the basis of increased yields; putting crop  
rotations into practice on the Kalinin Collective Farm in Uyar District]  
Sistema sevooborotov - osnova povysheniia urozhainosti; opyt osvoeniia  
sevooborotov v kolkhoze imeni Kalinina, Uarskogo raiona. Krasnoiarsk,  
Krasnoiarskoe knizhnoe izd-vo, 1960. 37 p. (MIRA 14:9)  
(Uyar District—Rotation of crops)

VIDEMAN, V.V., agronom; SHEVCHENKO, P.D.

Siberian collective farm is striving for higher standards in agriculture. Zemledelie 8 no.2:20-23 F '60.

(MIRA 13:5)

1. Krasnoyarskiy nauchno-issledovatel'skiy institut sel'skogo khozyaystva. 2. Kolkhos imeni Kalinina, Uyarskogo rayona, Krasnoyarskogo kraya (for Videman).

(Uyar District--Collective farms)



Subject : USSR/Aeronautics - training AID P - 4596  
Card 1/1 Pub. 135 - 8/23  
Author : Shevchenko, P. F., Maj.  
Title : Determining the altitude of ice accumulation on aircraft in flight.  
Periodical : Vest. vozd. flota, 3, 42-44, Mr 1956  
Abstract : The author suggests the use of some graphs, with the aid of which it is possible to determine the altitude of ice formation on aircraft. Five graphs.  
Institution : None  
Submitted : No date

3(7)

AUTHOR:

Shevchenko, P. F.

SOV/50-58-12-6/20

TITLE:

On the Calculation of the Saturation With Respect to Ice in the Forecast of Radiation Fog and Clouds (Ob uchete nasyshteniya po otnosheniyu ko l'du pri prognoze radiatsionnykh tumanov i oblachnosti)

PERIODICAL:

Meteorologiya i gidrologiya, 1958, Nr 12, pp 30-32 (USSR)

ABSTRACT:

In the analysis of the data on moisture it must be considered that water dropping down from icicles passes into the solid phase at temperatures below  $-10^{\circ}$ . For this reason the difference between the saturation above ice and water must be corrected in determinations of saturation. In the Rukovodstvo po kratkosrochnym prognozam pogody (Manual for Short-Range Weather Forecasts) Part II, p 110, Table 17 (unfortunately with misprints) values of relative moistures as well as of the temperature differences and the dew point (tochka rosy) are given for the case of a 100 % saturation above ice, practical recommendations, however, are not clearly expressed. Thus, the correction mentioned has not been taken into account in the diagram of the forecast mentioned in the title so that it cannot be applied at temperatures below  $-10^{\circ}$ . Experience has

Card 1/2

SHEVCHENKO, P.I.

Obryvko stacker-unloader. Sakh.prom. 30 no.7:54 J1 '56.

(MLRA 9:11)

1. Kotovskaya sveklobaza.

(Sugar industry--Equipment and supplies)

SHEVCHENKO, P.I.; GRANKIN, I.A.

Machine for lapping surfaces of body parts. Mashinostroenie no.3:112-  
113 My-Je '62. (MIRA 15:7)  
(Grinding machines)

SHEVCHENKO, P.I., inzh.; GRANKIN, I.A., inzh.

Semiautomatic unit for shot-blast cleaning of internal and external  
pipe surfaces. Mashinostroenie no.4:56-57 J1-Ag '62.  
(MIRA 15:9)

1. Khar'kovskiy traktornyy zavod.  
(Pipe--Cleaning) (Shot peening)

SHEVCHENKO, P.I.

Device for lubricating the supporting cable of suspended cable  
railroad. Mashinostroenie no.4:115 J1-Ag '62. (MIRA 15:9)  
(Railroads, Cable--Lubrication)

SHEVCHENKO, P. I.; GRANKIN, I. A.

Pneumatic device for driving-in and knocking-out wedges of  
stamping and forging hammers. Mashinostroenie no.5:106-107  
S-0 '62. (MIRA 16:1)

(Pneumatic tools)

SHEVCHENKO, P.I.; GRANKIN, I.A.

Automatic machine for induction heat treatment of tractor journals.  
Bul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.i tekhn.inform.  
no.11:47-48 '62. (MIRA 15:11)

(Induction heating)



SHEVCHENKO, P. I.

Device for lubricating the cable of an overhead conveyer.  
Mashinostroitel' no.10:16 0 '62. (MIRA 15:10)

(Conveying machinery--Lubrication)

SHEVCHENKO, Petr Karpovich; DENISOVA, I.S., redaktor; RAKOV, S.I.,  
tekhnicheskii redaktor.

[Lake Seliger; tourist itinerary] Ozero Seliger; marshruty  
turistskikh puteshestvii. [Moskva] Izd-vo VTsPS Profizdat,  
1955. 66 p. (MLRA 8:11)  
(Seliger, Lake)

GAVRILOV, A.K., kand.tekhn.nauk; SHEVCHENKO, P.L.

Increasing the reliability of engine cooling systems. Avt.prom.  
28 no.1:11-14 Ja '62. (MIRA 15:2)

1. Sibirskiy avtomobil'no-dorozhnyy institut imeni V.V.  
Kuybysheva.

(Automobiles—Engines—Cooling)

SHEVCHENKO, P.V., kandidat tekhnicheskikh nauk, dotsent.

Investigation of the strength of car axles. Trudy KHIIF no.23:  
149-178 '53. (MIRA 10:8)

(Car axles)

SHEVCHENKO, ~~P.B.~~ P.V.

124-1957-10-12178

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 10, p 135 (USSR)

AUTHOR: Shevchenko, P. B.

TITLE: The Causes of Cracks and Breakages in Car Axles (Prichiny obrazovaniya treshchin i izlomov vagonnukh osey)

PERIODICAL: V sb.: Povysheniye iznosostoykosti i sroka sluzhby mashin. Kiyev - Moscow, Mashgiz, 1956, pp 262-270

ABSTRACT: The article describes the results of investigations performed on 3000 pairs of car wheels. As a result of statistical analysis, crack distribution curves were constructed for axles of three standard types. It was discovered that most of the cracks occur at sections near the inside part of the hub. In order to obtain an indication of the magnitude and distribution of the pressures between adjoining elements, tests on twelve sets of samples (shaft and bushing) were performed. It was established that toward the ends of the bushings the pressure is about 30 percent above its average value. A graphical summary of the pressure distribution along the axle was constructed with due consideration to the influence of the additional forces which arise when the car passes

Card 1/2

SHCHERBAK, P. V.

(Candidate of Technical Sciences). Investigation of Damages to the Contact Surface of (Railroad-Car) Wheels and Measures Taken to Increase Their Strength and Extend Their Service Life

Investigating the State of Stress of Railroad-Car Axles and Measures Taken to Increase Their Strength and Prolong Their Service Life

Povysheniye iznosostoykosti i sroka sluzhby mashin. t. 2 (Increasing the Wear Resistance and Extending the Service Life of Machines. v. 2) Kiev, Izd-vo AN UkrSSR, 1960. 290 p. 3,000 copies printed. (Series: Its: Trudy, t. 2)

Sponsoring Agency: Vsesoyuznoye nauchno-tekhnicheskoye obshchestvo mashinostroitel'noy promyshlennosti. Tsentral'noye i Kiyevskoye oblastnoye pravleniya. Institut mekhaniki AN UkrSSR.

Editorial Board: Resp. Ed.: B. S. Grozin; Deputy Resp. Ed.: D. A. Draygor; A. P. Braun, I. D. Fagernan, I. V. Kragel'skiy; Scientific Secretary: M. L. Barabash; Ed. of v. 2: Ya. A. Samokhalov; Tech. Ed.: N. P. Rakhlina.

COVERAGE: The collection contains papers presented at the Third Scientific Technical Conference held in Kiev in September 1957 on problems of increasing the wear resistance and extending the service life of machines. The conference was sponsored by the Institut stroitel'noy mekhaniki AN UkrSSR (Institute of Structural Mechanics of the Academy of Sciences Ukrainian SSR), and by the Kiyevskoye oblastnoye organizatsiya nauchno-tekhnicheskogo obshchestva mashinostroitel'noy

SHEVCHENKO, P. V.

Doc Tech Sci - (diss) "Study of the causes for formation of fissures in the axles of railway car wheel couples and measures for increasing their strength and durability." Leningrad, 1961. 28 pp with diagrams; (Ministry of Railways USSR, Leningrad Order of Lenin Inst of Railroad Transport Engineers imeni Academician V. N. Obraztsov); 160 copies; free; (KL, 6-61 sup, 212)

SHEVCHENKO, P.V.

Determining the parameters of seamless rolled wheels.

Trudy KHIIT no.49:5-19 '61.

(MIRA 15:12)

(Car wheels)

(Strains and stresses)



SHEVCHENKO, P.V.

Determining the residual stresses in the disks of seamless  
rolled car wheels with the rosette method. Trudy KHIIT  
no.49:20-33 '61. (MIRA 15:12)

(Car wheels)  
(Strength of materials)

SHEVCHENKO, P.V.; KOGAN, B.I.

Investigating the state of stress of car wheel disks.  
Trudy KHIIT no.49:34-54 '61. (MIRA 15:12)  
(Car wheels)  
(Strains and stresses)

SHEVCHENKO, P.V.; RYL'KOV, K.G.

Investigating the strength of the axle and wheel press joints.  
Trudy KHIIT no.49:55-70 '61. (MIRA 15:12)  
(Car wheels) (Car axes)

L 36144-66 EWP(e)/EWT(m)/T/EWP(t)/EWP(k)/ETI IJP(c) WH/JD/HW

ACC NR: AP6016315

(N)

SOURCE CODE: UR/0182/66/000/001/0036/0037

AUTHOR: Degtev, G. F., Matveyev, O. R., Kharchenko, V. I., Shevchenko, P. V. 54

ORG: none

TITLE: Heating of steel billets in molten glass 15

SOURCE: Kuznechno-shtampovocchnoye proizvodstvo, no.1, 1966, 36-37

TOPIC TAGS: glass, heat carrier, heat treat furnace, metal forging, METAL  
OXIDATION, METAL HEAT TREATMENT

ABSTRACT: The authors refute the contention of I. I. Gushchina (Kuznechno-shtampovocchnoye proizvodstvo, no 4, 1965) and other investigators that heating in molten glass can at present be an effective method of protecting steel against oxidation during reheating prior to its forging and pressing. On the basis of experiments with the heating of steel billets in molten window glass as well as in other types of molten glass at 1000-1450°C for up to 5 hr it is shown that, along with its oxidation-preventing qualities, glass displays major disadvantages such as considerable viscosity and pronounced adhesion to the metal; this leads to a high consumption of glass and causes difficulties during the subsequent cleaning of the metal. During precision die-forging the remaining glass gets pressed into the surface layers and

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UDC: 542.41

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ACC NR: AP6016315

distorts the dimensions of the finished forging. Moreover, the high temperatures in the working area (of the order of 1400°C) result in extremely unfavorable working conditions for the furnace-tending personnel. All this gives reason to believe that, contrary to the published recommendations, this technique of oxidation-free reheating of steel is not practical at present.

SUB CODE: 13, 11/    SUM DATE: none/    ORIG REF: 002/    OTH REF: 001

Card 2/2 *lll*

MAKHIN'KO, V.I.; SHEVCHENKO, R.A.

Materials on the embryonic physiology of domestic fowl. Report  
No.2: Growth of pigeon embryos and changes in their respiration  
during incubation. Uch.zap. KHGU 53:171-188 '54. (MIRA 11:11)

1. Kafedra fiziologii cheloveka i zhivotnykh Khar'kovskogo gosudar-  
stvennogo universiteta imeni A.M. Gor'kogo.  
(EMBRYOLOGY--BIRDS) (PIGEONS) (RESPIRATION)

SHEVCHENKO, R.F.

Regularization of the trace of an ordinary differential operator. Vest.Mosk.un.Ser.1: Mat., mekh. 20 no.6:28-36 N-D '65. (MIRA 18:12)

1. Kafedra teorii funktsiy i funktsional'nogo analiza Moskovskogo universiteta. Submitted April 1, 1964.

SHEVCHENKO, R.F.

Trace of a differential operator. Dokl. AN SSSR 164 no.1:  
62-65 S '65. (MIRA 18:9)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.  
Submitted March 12, 1965.



MESHCHERINOVA, O.N., kand. tekhn. nauk; PREYGERZON, Sh.I., kand. tekhn. nauk  
SHEVCHENKO, R.G., inzh.

Replacing cemented 20KhNZA and 12KhNZA steel with steel containing  
boron. Trakt. i sel'khoz mash. no. 12:40-42 D '59.

(MIRA 13:3)

(Steel) (Tractors)

RYBALKO, F.P.; ZELENIN, L.P.; GUSEV, G.V.; SHEVCHENKO, R.I.

Dependence of the nonrecovery of plastic deformation on the degree of the macroscopic inhomogeneity of its distribution. Izv. vys. ucheb. zav.; fiz. 8 no.6:125-129 '65.

(MIRA 19:1)

1. Ural'skiy gosudarstvennyy universitet imeni A.M. Gor'kogo. Submitted September 26, 1963.

L 04664-67 EMP(k)/ENT(m)/T/EMP(t)/ETI IJP(c) JD/HW/JG

ACC NR: AP6007115

SOURCE CODE: UR/0129/66/000/002/0050/0051

AUTHORS: Alferova, N. S.; Shevchenko, R. I.; Kutsygina, T. V. 47

ORG: All-Union Scientific Research Institute for Pipes (Vsesoyuznyy nauchno-issledovatel'skiy trubnyy institut) 46

TITLE: Cold deformation and annealing of alloy VT15 46

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 2, 1966, 50-51

TOPIC TAGS: chromium alloy, molybdenum containing alloy; alloy, aluminum containing alloy / VT15 alloy 6

ABSTRACT: The cold deformation and the effect of thermal treatment on the structure and hardness of the cold-deformed alloy VT15 (3% Al, 6.5% Mo, and 10.7% Cr) were studied. The microstructure of the alloy was determined as a function of the thermal treatment (annealing followed by quenching in water followed by a second annealing stage). The mechanical properties of the alloy are compared with the corresponding properties of steel Kh18Ni9Ti, and the experimental results are shown graphically (see Fig. 1). It was found that an increase in the preliminary degree of deformation leads to an increase in the maximum hardness of the alloy and activates the aging processes in the alloy. A further increase in the temperature leads to a decrease in the hardness of the metal.

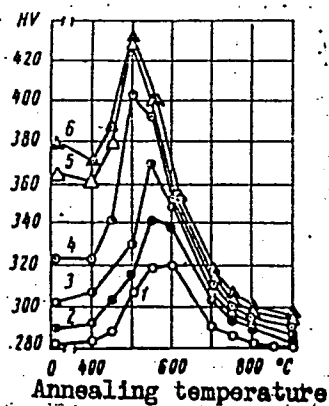
Card 1/2

UDC: 669.295'71'28'26:620.162.2

L 04664-67

ACC NR: AP6007115

Fig. 1. Effect of the annealing temperature on the hardness of alloy VT15 for different degrees of rolling:  
1 - 0%; 2 - 5%; 3 - 20%; 4 - 40%;  
5 - 70%; 6 - 90%.



kh

Orig. art. has: 3 graphs.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 001

13/

Titanium 27

Card 2/2

SHEVCHENKO, R.M. (Sverdlovsk)

Determination of the comparative absorption of radioactive iodine  
by thyroid gland tissues in different forms of its pathology;  
the problem of the method of autoradiography. Probl.endok.i gorm.  
no.4:72-78 '62. (MIRA 15:11)

1. Iz gosspital'noy khirurgicheskoy kliniki (zav. - chlen-korres-  
pondent AMN SSSR zasluzhennyy deyatel' nauki prof. A.T. ~~I~~idskiy)  
Sverdlovskogo meditsinskogo instituta.

(AUTORADIOGRAPHY) (THYROID GLAND--DISEASES)  
(IODINE--ISOTOPES)

LUZAN, P.P.; Primalni uchastiye: FEDOROVA, R.I.; LISTOVNICHAYA, S.P.;  
SHEVCHENKO, R.V.

Effect of pig iron properties on the porosity of the working  
surface of tractor liners. Lit. proizv. no.6:27-29 Je '61.  
(MIRA 14:6)

1. Tsentral'naya zavodskaya Laboratoriya zavoda im. Lipse (for  
Fedorova, Listovnichaya, Shevchenko).  
(Cast iron—Metallography)

SHEVCHENKO, S.

Agricultural Machinery

Gathering and stacking straw. Kolkh. proiz. 12, No. 5, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED.

ZHUK, YA., SHVCHENKO, S., LEVKIN, A., BLEKMAN, I.

Straw

New method of stacking straw, Tekhn. MTS, 13, no. 26, 1952.

Monthly List of Russian Accessions, Library of Congress. October 1952. UNCLASSIFIED.



SHEVCHENKO, S. inzh.

Mounted universal stack carrier. Tekh. v sel'khoz. 20 no.6:79-82  
Je '60. (MIRA 13:10)

(Agricultural machinery)

ZHEGALOV, I.S.; LEVKIN, A.D.; MARKOVICH, I.M.; BAYKOVA, N.Ya.; SHEV-  
CHENKO, S.I.; ZHUK, Ya.M., kand. tekhn. nauk, red.; KRYUKOV, V.L.,  
red.; ANTONOVA, N.M., tekhn. red.

[Harvesting grain in two and three stages] Dvukh- i trekhfaznaia  
uborka zernovykh kul'tur. Moskva, Sel'khozgiz, 1961. 92 p.

(MIRA 14:9)

1. Sotrudniki laboratorii mekhanizatsii uborki, ochistki, sushki  
i khraneniya zerna Vsesoyuznogo nauchno-issledovatel'skogo instituta  
mekhanizatsii sel'skogo khozyaystva (for all except Zhuk, Kryukov,  
Antonova).

(Grain--Harvesting)

GUROVICH, S.; SHEVCHENKO, S.

Improve bank control. Den. 1 kred. 14 no.9:46 S '56. (MLRA 9:10)

(Banks and banking) (Wages)

SHEVCHENKO, S.; MATCHOV, B.

International payments of European countries. Den. i kred. 15  
no. 7:58-62 J1 '57. (MLPA 10:8)  
(Europe--Balance of trade)

*Diff. 10/1/57*  
POLEZHAYEV, V.; SHEVCHENKO, S.

Fifth session of the Committee for the Development of Foreign Trade  
[with summary in English, p.41]. Vnesh. terg. 27 no.1:4-9 '57.  
(Geneva--Commerce--Congresses) (MLRA 10:4)

MAYOROV, B.; SHEVCHENKO, S.

The world's most stable currency. Vnesh. torg. 41 no. 1:7-9 '61.  
(MIRA 14:1)

(Money) (Foreign exchange)

TIKHONRAVOV, S.; LILOV, A. (Chernovtsy); SHEVCHENKO, S.

Readers report, advise, suggest.... Zhil.-kom.khoz. 12  
no.11:30 N '62. (MIRA 15:11)

1. Predsedatel' ob'yedinennogo komiteta professional'nogo soyuza  
rabochikh mestnoy promyshlennosti i kommunal'nogo khozyaystva  
Kalininskogo rayona Moskvy (for Tikhonravov). 2. Nachal'nik  
planovo-ekonomicheskogo otdela Alma-Atinskogo tramvayno-trolley-  
busnogo upravleniya (for Shevchenko).  
(Municipal services)

SHVCHENKO, S.

Direct methods of oil and gas prospecting. Geol. nafti i  
gaza 5 no. 2:55-56 F '61. (NERA 14:2)  
(Prospecting—Geophysical methods)



PANASYUK, V.D.; SHEVCHENKO, S.A.

Aquation of some complex compounds of trivalent cobalt. Ukr.  
khim. zhur. 29 no.11:1142-1147 '63. (MIRA 16:12)

1. Kiyevskiy gosudarstvennyy universitet im. Shevchenko.

L 52593-65 EWT(1)/EWP(6)/EWT(m)/EWP(1)/EEC(t)/EWP(t)/EWP(b)/ Pz-6 IJP(c)

ABSTRACT NR: AP5010716

ID/AT/WE

UR/0181/65/007/004/1092/1094

AUTHOR: Konorova, Ye. A.; Sorokina, L. A.; Shevchenko, S. A.

41  
39  
6

TITLE: Photoconductivity of diamonds in the ultraviolet part of the spectrum

SOURCE: Fizika tverdogo tela, v. 7, no. 4, 1965, 1092-1094

TOPIC TAGS: diamond, nitrogen content, photoconductivity, absorption coefficient, ultraviolet property

ABSTRACT: In an attempt to identify the transitions with which the near-ultraviolet absorption in diamonds is connected, and to ascertain whether it is due to excitation of nitrogen atoms present in the lattice or the lattice atoms them-

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ACCESSION NR: AP5010716

2

two maxima, at 225 and 255 nm, the former for all diamonds and the latter only for diamonds containing nitrogen. The coefficient of absorption at long wavelengths (7.8  $\mu$ ) was appreciable (31.5) only for the sample with the maximum nitrogen concentration ( $1.8 \times 10^{20}$ ). The spectral dependence of the photocurrent does not agree with the spectral dependence of the absorption coefficient, and it is assumed that part of the light of the crystal is absorbed without excitation of the photoconductivity. In the case of large nitrogen content, which may be present in the diamond in the form of layers (rather than individual donors), the photoconductivity may be due to detachment of an electron from the nitrogen atom in the layer. "The authors thank V. S. Vavilov for interest in the work." Orig. art. has: 2 figures and 1 table. [02]

ASSOCIATION: Fizicheskii institut im. P. N. Lebedeva AN SSSR, Moscow (Physics Institute, AN SSSR)

SUBMITTED: 09Oct64

ENCL: 00

SUB CODE: OP, SS

NO REF SOV: 000

OTHER: 008

ATD PRESS: 4008

Card 2/2 APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549210010-8

REF ID: A5018306 Pz-6/Po-4/P1-4 IJP(c) AT

APPROVAL NO: A5018306

UR/0057/65/035/007/1262/1264  
533.9

AUTHOR: Pavlov, S. M.; Shevchenko, S. A.

TITLE: Concerning the radial distribution of electric conductivity in an ionized gas jet

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 7, 1965, 1262-1264

TOPIC TAGS: plasma jet, plasma conductivity, temperature distribution, plasma measurement *qm*

ABSTRACT: The authors discuss the effect of the radial distribution of the electric conductivity of a cylinder of ionized gas on the effective conductivity as measured by the loading effect of the ionized gas on a resonant circuit. The effective conductivity as measured in this way is a weighted average of the true conductivity, the weight being proportional to the square of the local electric field strength. It is assumed that the measurements are made in such a way that the electric field strength is proportional to the radius (the distance from the axis of the ionized gas cylinder). The radial distribution of the conductivity is related to that of the temperature by a known equation that obtains for a

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ACCESSION NR: AP5018306

weakly ionized gas, and the effective conductivities of ionized gas cylinders with different assumed temperature distributions were calculated. Some of these rather simple computations were (successfully) checked by electrolytic tank measurements. It is concluded that the effective conductivity as measured in the assumed manner is more characteristic of the cooler outer portions of the jet than of the hot inner (axial) region. Orig. art. has: 5 formulas, 3 figures, and 1 table.

ASSOCIATION: Gosudarstvennyy institut prikladnoy khimii (State Institute of Applied Chemistry)

SUBMITTED: 27 Jul 64

ENCL: 00

SUB CODE: NE, EM

NR REF SOV: 004

OTHER: 000

Card 2/2 *LLP*

SHEVCHENKO, S.D.

Homeoplasty in total lesion of the wing of the ilium by osteoclastoma. Ortop., travm. i protez. 26 no.3:59-60 Mr '65.  
(MIRA 18:7)

1. Iz detskogo otdeleniya (zav. - doktor med.nauk Ye.Ya. Goncharova) Ukrainского instituta ortopedii i travmatologii imeni Sitenko (dir. - chlen-korrespondent AMN SSSR prof. N.P. Novachenko). Adres avtora: Khar'kov, Pushkinskaya ul., d.80, Institut ortopedii i travmatologii.

SHEVCHENKO, S.D.

Vanadium content in bone tumors. Ortop., travm. i protez. 26  
no.8:73-74 Ag '65. (MIRA 18:9)

1. Iz biokhimicheskoy laboratorii (zav.- kand. med. nauk A.M. Belous) Khar'kovskogo instituta protezirovaniya, ortopedii i travmatologii imeni Sitenko (dir.- chlen-korrespondent AMN SSSR prof. N.P. Novachenko). Adres avtora: Khar'kov, Pushkinskaya ul., d.80, Institut protezirovaniya, ortopedii i travmatologii.

BOZHENKO, V.P.; SHEVCHENKO, S.F.

Ecology of the tick *Ixodes laguri laguri* Ol. Zool.zhur. 32 no.5:853-856 S-0  
'53. (MLBA 6:10)

1. Rostovskiy nauchno-issledovatel'skiy institut Ministerstva zdravookhraneniya  
SSSR. (Ticks)



BOZHENKO, V.P.; SHEVCHENKO, S.F.

Ecology of the tick *Dermacentor marginatus* Sulz. in the  
Don Delta. Zool.zhur. 33 no.3:556-560 My-Je '54.(MLRA 7:7)

1. Rostovskiy nauchno-issledovatel'skiy institut Ministerstva  
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(Don Delta--Ticks) (Ticks--Don Delta)

BOZHENKO, V.P.; SHEVCHENKO, S.F.

Ecology of the tick *Ixodes laguri laguri* Ol. in connection with its role in sustaining natural reservoirs of tularemia [with English summary in insert]. Zool.zhur. 35 no.6:837-842 Je '56.  
(MLRA 9:10)

1. Rostovskiy nauchno-issledovatel'skiy institut Ministerstva zdravookhraneniya SSSR.  
(TICKS AS CARRIERS OF DISEASE) (TULAREMIA)

SHEVCHENKO, S. F.

"An Approach to the Importance of Certain Species of Ixodid Ticks  
in Natural Foci of Tularemia."

Tenth Conference on Parasitological Problems and Diseases with Natural  
Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of  
Sciences, USSR, Moscow-Leningrad, 1959.

Rostov-on-Don Anti plague Institute

SHEVCHENKO, S. F., Cand Biol Sci (diss) -- "The role of ixodic ticks in the natural tularemia foci of the lower reaches of the Don River". Leningrad, 1960. 19 pp (Zool Inst of the Acad Sci USSR), 150 copies (KL, No 14, 1960, 131)

L 6836-65 EWT(1)/EWA(b) AMP/Pa-4 JK

ACCESSION NR: AP4039935

S/0016/64/000/005/0050/0054

AUTHOR: Shiryayev, D. T.; Tokarev, S. A.; Shevchenko, S. F.

TITLE: Use of antibody neutralization reaction for retrospective diagnosis of tularemia epizootic

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 5, 1964, 50-54

TOPIC TAGS: tularemia, epizootiology, antibody neutralization reaction, bone extract, organ extract, tularemia retrospective diagnosis

ABSTRACT: An intensive tularemia epizootic killed large numbers of rabbits and smaller rodents on Biryuchy Island in the Kherson region in the fall of 1961 and causative agent cultures were isolated from various rodents and ticks by the local laboratory. In May 1962 the preserved remains of field mice which had died of tularemia were found in many burrows during an epizootological investigation of the island. In the present study, bones, dried organs and tissues of 27 field mouse nests were investigated by antibody neutralization reac-

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L 6836-65

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tions to find whether tularemia can be diagnosed retrospectively.

Thirty-nine extracts were prepared from the bones, organs, tissues, and nest masses. Sheep erythrocytes sensitized with different amounts of tularemia antigen according to Levy and Momot's method were used in the neutralization reactions. A specific antitularemia serum with an agglutination titer of 1:2000, prepared by the Odessa Institute of Epidemiology and Microbiology, was inactivated for 30 min at 50°C before staging the neutralization reactions. Findings show that the presence of a tularemia antigen in extracts of bone, organ, tissue and nest mass can be detected by antibody neutralization reaction. Positive reactions were found for highly diluted organ and whole nest extracts, but were not found for comparably diluted bone extracts which apparently require a greater quantity of antigen for neutralization. The specificity of the latter reaction was confirmed by additional experiments on bone and organ extracts prepared from tularemia infected white mice. Study data demonstrate that the antibody neutralization reaction is highly sensitive and specific in diagnosing tularemia retrospectively. Orig. art. has: 2 tables.

Card 2/3

L 6836-65

ACCESSION NR: AP4039935

ASSOCIATION: Rostovskiy-na-Donu nauchno-issledovatel'skiy  
profivochnyy institut (Rostov-on-Don Scientific-Research  
Antiplane Institute)

SUBMITTED: 27Nov62

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OTHER: 000

Card 3/3

SHIRYAYEV, D.T.; TOKAREV, S.A.; SHEVCHENKO, S.F.

Application of the antibody neutralization reaction for the retrospective diagnosis of epizootic tularemia. Zhur.mikrobiol., epid. i immun. 41 no.5:50-54 My '64. (MIRA 18:2)

1. Rostovskiy-na-Donu nauchno-issledovatel'skiy protivochumnyy institut.



ACC NR: AP6021895

(11)

SOURCE CODE: UR/0358/66/035/003/0305/0309

AUTHOR: Shirayev, D. T.; Shevchenko, S. F.; Tokarev, S. A.; Orekhova, I. M.

ORG: State Scientific Research Anti plague Institute, Rostov-na-Donu (Gosudarstvennyy nauchno-issledovatel'skiy protivochumnyy institut)

TITLE: Experimental studies of ticks as tularemia vectors

SOURCE: Meditsinskaya parazitologiya i parazitarnyye bolezni, v. 35, no. 3, 1966, 305-309

TOPIC TAGS: human disease, animal disease, disease vector, tick, orthopod vector, tularemia, animal parasite

ABSTRACT:

The tick species *Hyalomma plumbeum plumbeum* and *Haemaphysalis punctata* infected with tularemia occur in nature. The authors infected these species with tularemia under laboratory conditions. The ticks retained the infective agent throughout all stages of development. Nymphs of *H. plumbeum* infected animals with tularemia over an 82-day period, suggesting that these ticks, which are prevalent in the southern steppes, are important in maintaining natural tularemia foci. Orig. art. has: 3 tables.

[W.A. 50; CBE No. 10]

SUB CODE: 06/ SUBM DATE: 04Jun63/ ORIG REF: 015/

Card 1/1

UDC: 616.455-022.39.595.42+576.895.42

Name: SHEVCHENKO, S. I.

**Dissertation:** Experimental investigation and agricultural engineering principles of a machinery system for collecting straw and chaff behind combines in steppe regions of the USSR

**Degree:** Cand Agr Sci

Defended at:

**Affiliation:** Moscow Order of Lenin Agricultural Academy imeni K. A. Timiryazev

Publication

Defense Date, Place: 1956, Moscow

Source: Knizhnaya Letopis', No 2, 1957

SHEVCHENKO, S.I.

Tractor rakes for gathering straw. Biul.tekh.-ekon.inform. no.7:66-67  
'58. (MIRA 11:9)

(Straw) (Agricultural machinery)

KRIKOV, V.I., starshiy prepodavatel'; SHEVCHENKO, S.I., assistant

Planning of the average cost of the dispensary and infirmary  
prescription. Apt.delo 8 no.6:15-18 N-D '59. (MIRA 13:4)

1. Iz kafedry tekhnologii lekarstv i organizatsii farmatsevtiche-  
skogo dela Pyatigorskogo farmatsevticheskogo instituta.  
(PRESCRIPTION PRICING)